● USPN-4 Power Dissipation



Power dissipation data for the USPN-4 is shown in this page.

The value of power dissipation varies with the mount board conditions.

Please use this data as one of reference data taken in the described condition.

1. Measurement Condition (Reference data)

Condition: Mount on a board
Ambient: Natural convection
Soldering: Lead (Pb) free

Board: Dimensions 40 x 40 mm (1600 mm2 in one side)

Copper (Cu) traces occupy 50% of the front and 50% of the back.

The copper area is divided into four block,

one block is 12.5% of total.

The USPN-4 package has for terminals.

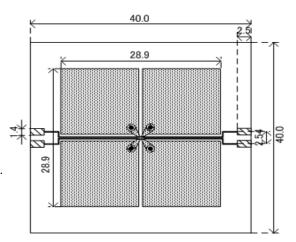
Each terminal connects one copper block in the front

and one in the back.

Material: Glass Epoxy (FR-4)

Thickness: 1.6 mm

Through-hole: 4 x 0.8 Diameter

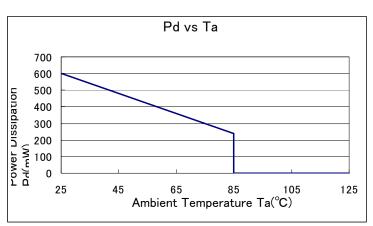


Evaluation Board (Unit: mm)

2. Power Dissipation vs. Ambient Temperature (85°C)

Board Mount (Tj max = 125°C)

Ambient	Power	Thermal
Temperature	Dissipation Pd	Resistanc
(°C)	(mW)	e(°C/W)
25	600	166.67
85	240	100.07



3. Power Dissipation vs. Ambient temperature (105°C)

Board Mount (Tjmax=125°C)

Ambient	Power	Thermal
Temperature	Dissipation Pd	Resistanc
(°C)	(mW)	e(°C/W)
25	600	166.67
105	120	100.07

